

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P275665

Luminaire Tested: **14CZ2-44-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4414.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

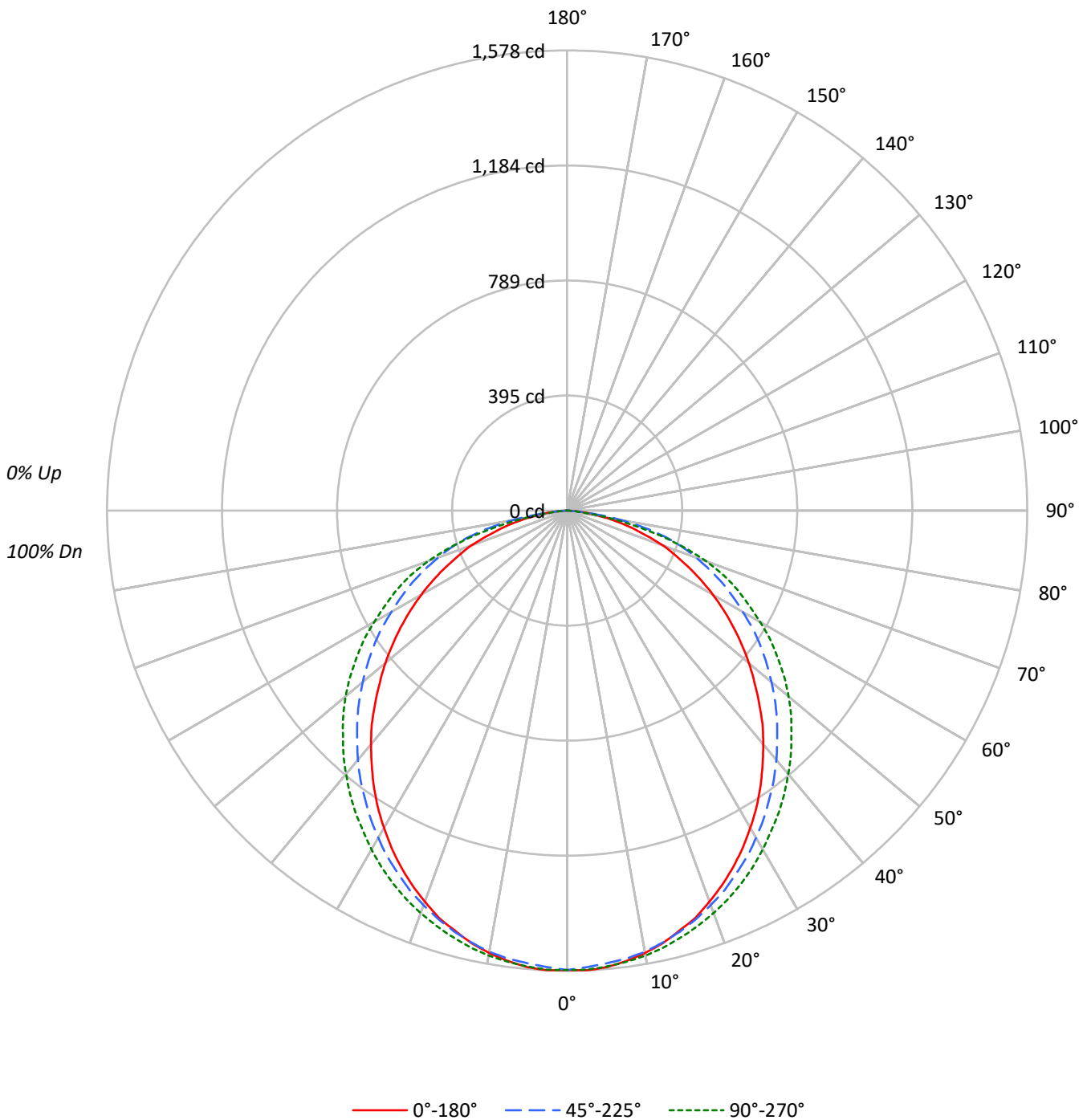
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4240	4240	4240
5°	4244	4209	4239
10°	4210	4198	4234
15°	4152	4164	4219
20°	4086	4124	4205
25°	4003	4074	4191
30°	3903	4026	4169
35°	3796	3969	4156
40°	3675	3921	4144
45°	3540	3873	4139
50°	3408	3830	4150
55°	3265	3799	4138
60°	3110	3745	4111
65°	2926	3734	4111
70°	2755	3702	3995
75°	2389	3618	3413
80°	1932	2916	2272
85°	1284	1013	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	3.4
10°-20°	423.4	9.6
20°-30°	635.1	14.4
30°-40°	757.6	17.2
40°-50°	783.3	17.7
50°-60°	715.1	16.2
60°-70°	562.7	12.7
70°-80°	327.6	7.4
80°-90°	60.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1207.3	27.4
0°-40°	1965.0	44.5
0°-60°	3463.3	78.5
0°-90°	4414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1571	1567	1558	1571	1569	149
15°	1490	1493	1495	1514	1514	421
25°	1348	1355	1372	1405	1412	621
35°	1156	1171	1208	1254	1265	722
45°	930	961	1018	1075	1088	718
55°	696	733	810	869	882	622
65°	460	508	586	632	646	456
75°	230	284	348	341	328	244
85°	42	59	33	26	22	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.7	1575.7	1575.7	1575.7	1575.7
2.5°	1577.9	1573.5	1567.0	1577.9	1575.7
5°	1571.3	1567.0	1558.2	1571.3	1569.2
7.5°	1558.2	1553.8	1549.5	1562.6	1560.4
10°	1540.7	1538.5	1536.3	1551.7	1549.5
12.5°	1518.8	1518.8	1516.6	1534.1	1534.1
15°	1490.4	1492.6	1494.8	1514.4	1514.4
17.5°	1464.1	1461.9	1468.5	1490.4	1492.6
20°	1426.9	1431.3	1440.0	1466.3	1468.5
22.5°	1389.7	1394.1	1409.4	1435.7	1442.2
25°	1348.1	1354.7	1372.2	1405.0	1411.6
27.5°	1304.3	1313.1	1337.2	1372.2	1378.8
30°	1256.2	1269.3	1295.6	1335.0	1341.6
32.5°	1208.1	1221.2	1254.0	1293.4	1302.2
35°	1155.5	1170.9	1208.1	1254.0	1265.0
37.5°	1100.8	1120.5	1164.3	1210.2	1223.4
40°	1046.1	1068.0	1116.1	1164.3	1179.6
42.5°	991.4	1013.3	1065.8	1120.5	1135.8
45°	930.1	960.8	1017.7	1074.6	1087.7
47.5°	871.0	903.9	967.3	1024.2	1041.7
50°	814.1	847.0	914.8	973.9	991.4
52.5°	755.0	790.1	862.3	923.5	938.9
55°	695.9	733.1	809.7	868.8	882.0
57.5°	636.9	676.2	755.0	811.9	827.3
60°	577.8	619.3	695.9	752.8	763.8
62.5°	518.7	562.4	641.2	691.6	702.5
65°	459.6	507.7	586.5	632.5	645.6
67.5°	402.7	450.8	527.4	571.2	582.1
70°	350.2	393.9	470.5	503.4	507.7
72.5°	284.5	339.2	413.6	431.1	420.2
75°	229.8	284.5	348.0	341.4	328.3
77.5°	175.1	229.8	271.4	249.5	232.0
80°	124.7	179.5	188.2	155.4	146.6
82.5°	81.0	124.7	105.0	81.0	65.7
85°	41.6	59.1	32.8	26.3	21.9
87.5°	13.1	8.8	4.4	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)